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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert B. Hodek et al.
Appl. No.: 10/774,874
Filed: February 9, 2004
Title: A LOW THERMAL CONDUCTING SPACER ASSEMBLY FOR AN INSULATING GLAZING UNIT AND METHOD OF MAKING SAME

Group Art Unit: unassigned
Examiner: unassigned
Confirmation No. unassigned
Docket No.: 1017D3

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

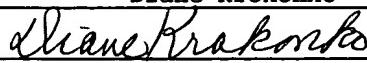
The documents listed on the attached Form PTO-1449 are brought to the attention of the United States Patent and Trademark Office with respect to the application identified above in accordance with the provisions of 37 CFR 1.56, 1.97, and 1.98 (copies of foreign patent documents and/or other citations enclosed if not previously cited in a related U.S. application relied upon for an earlier filing date under 35 U.S.C. 120).

Respectfully submitted,

ANDREW C. SIMINERIO
Registration No. 30,803
Attorney of Record


(412) 434-4645

Pittsburgh, Pennsylvania
May 12, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on <u>May 12, 2004</u>
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U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	1,836,354	12/31	Abrams	--	--	
	AB	1,877,336	9/32	Lovell et al.	--	--	
	AC	2,086,225	7/37	Hiering	113	116	
	AD	2,097,927	11/37	Klemp	113	116	
	AE	2,149,882	3/39	Clements	29	148	
	AF	2,173,664	9/39	Shutts	20	56.5	
	AG	2,219,595	10/40	Lang	29	148	
	AH	2,235,680	3/41	Haven et al.	20	56.5	
	AI	2,348,307	5/44	Richardson	20	56.5	
	AJ	2,587,063	2/52	Petsch	20	56.5	
	AK	2,625,717	1/53	Wampler et al.	20	56.5	

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		Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
	AL	639,955	7/50	Great Britain				
	AM	206 130	11/59	Germany				
	AN	121019	3/60	New Zealand				
	AO	898,981	6/62	Great Britain				
	AP	1,918,528	11/70	Germany				
	AQ	481423	5/77	Australia				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"IBM Technical Disclosure Bulletin" Vol. 11, No. 2, July 1968
AS	"Super Spacer™", Edgetech I.G. Ltd., May 1988
AT	Glover et al.; "Super Spacer™ Technical Report", Edgetech I.G. Ltd., May 1988

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	AA	2,708,774	5/55	Seelen	20	56.5	
	AB	2,750,637	6/56	Browne	20	56.5	
	AC	2,768,475	10/56	Seelen et al.	49	81	
	AD	2,831,244	4/58	Adell	29	476	
	AE	2,885,746	5/59	Gura	20	56.5	
	AF	2,974,377	3/61	Kunkle	20	26.5	
	AG	2,977,722	4/61	Mazzoni	49	82	
	AH	3,021,243	2/62	Bethge	156	272	
	AI	3,026,582	3/62	Bayer	20	56.5	
	AJ	3,030,673	4/62	London	20	56.5	
	AK	3,045,297	7/62	Ljungdahl	20	56.5	

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	AL	2,619,718	11/77	Germany			
	AM	1,509,178	4/78	Great Britain			
	AN	493482	5/78	Australia			
	AO	30 40 407	10/79	Germany			X
	AP	2,923,769	1/80	Germany			
	AQ	80 17 644	10/80	Germany			X

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Wright et al., "Thermal Resistance Measurement of Glazing System Edge-Seals and Seal Materials Using a Guarded Heater Plate Apparatus", November 1989
AS	"Superglass™ System With Heat Mirror Film", January 1990
AT	"Introducing Super Spacer™ PIB", September 1, 1990

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	AA	3,054,153	9/62	Partsch	20	56.5	
	AB	3,105,274	10/63	Armstrong	20	56.5	
	AC	3,212,179	10/65	Koblenksky	29	451	
	AD	3,267,569	8/66	Eichhorn et al.	29	471.5	
	AE	3,280,523	10/66	Stroud et al.	52	172	
	AF	3,283,890	11/66	Morris et al.	206	59	
	AG	3,333,354	8/67	Kuliczkowski et al.	29	604	
	AH	3,406,054	10/68	Chaffee	156	250	
	AI	3,427,366	2/69	Verdol et al.	260	859	
	AJ	3,445,436	5/69	Lake et al.	260	75	
	AK	3,478,483	11/69	Baker	52	658	

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	AL	1,585,544	3/81	Great Britain				
	AM	57-14436	1/82	Japan (abstract)				
	AN	3,044,179	6/82	Germany				
	AO	3,302,659	8/84	Germany				
	AP	8201396.9	10/84	Germany			X	
	AQ	0 241 665	10/87	EP				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"What Is Warm Edge Technology"; Glass Digest, pps. 74-76; March 1991
AS	Advertisement from Lockformer Company (no date)
AT	

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Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	3,657,900	4/72	Bowser et al.	62	388	
	AB	3,674,743	7/72	Verdol et al.	260	73 L	
	AC	3,758,996	9/73	Bowser	52	172	
	AD	3,768,223	10/73	Kurz	52	658	
	AE	3,771,276	11/73	Stewart et al.	52	172	
	AF	3,775,914	12/73	Patril	52	172	
	AG	3,832,254	8/74	Bowser et al.	156	107	
	AH	3,867,107	2/75	Long et al.	29	190	
	AI	3,877,275	4/75	Attwood	72	177	
	AJ	3,911,554	10/75	Ford	29	527.2	
	AK	3,919,023	11/75	Bowser et al.	156	107	

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		Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
	AL	0 261 923	3/88	EPO				
	AM	206499	8/88	New Zealand				
	AN	2,202,261	9/88	Great Britain				
	AO	0 328 823	8/89	EP				
	AP	223888	10/90	New Zealand				
	AQ	0 430 889	11/90	EPO				

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	AA	3,923,748	12/75	Hutt et al.	260	77.5	
	AB	3,935,683	2/76	Derner et al.	52	172	
	AC	3,974,823	8/76	Patil	126	271	
	AD	4,015,394	4/77	Kessler	52	616	
	AE	4,057,945	11/77	Kessler	52	398	
	AF	4,063,002	12/77	Wilson, Jr.	428	411	
	AG	4,069,630	1/78	Chess et al.	52	171	
	AH	4,080,482	3/78	Iacombe	428	34	
	AI	4,109,431	8/78	Mazzoni et al.	52	172	
	AJ	4,132,539	1/79	Jeffries	65	40	
	AK	4,153,594	5/78	Wilson, Jr.	260	31.8	

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		Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
	AL	0 403 058	12/90	EPO				
	AM	WO91/00409	1/91	PCT				
	AN							
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	AA	4,222,213	9/80	Kessler	52	790	
	AB	4,269,255	5/81	Nailor et al.	160	381	
	AC	4,270,688	6/81	Janssens et al.	228	5.1	
	AD	4,318,959	3/82	Evans et al.	428	364	
	AE	4,350,515	9/82	Stewart	65	40	
	AF	4,431,691	2/84	Greenlee	428	34	
	AG	4,542,611	9/85	Day	52	172	
	AH	4,455,796	6/84	Schoofs	52	172	
	AI	4,464,874	8/84	Shea, Jr. et al.	52	398	
	AJ	4,520,611	6/85	Shingu et al.	52	789	
	AK	4,546,723	10/85	Leopold et al.	118	669	

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	AA	4,564,540	1/86	Davies et al.	428	34	
	AB	4,574,553	3/86	Lisec	52	658	
	AC	4,581,807	4/86	Adell	29	527.4	
	AD	4,583,257	8/89	Henery	427	166	
	AE	4,590,240	5/86	Streeter et al.	525	123	
	AF	4,597,232	7/86	Lingemann	52	304	
	AG	4,610,771	9/86	Gillary	204	192.1	
	AH	4,622,249	11/86	Bowser	428	34	
	AI	4,649,685	3/87	Wolf et al.	52	398	
	AJ	4,669,241	6/87	Kelly	52	400	
	AK	4,710,411	12/87	Gerace et al.	428	34	

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	AA	4,780,164	10/88	Rueckheim et al.	156	104	
	AB	4,780,521	10/88	Duck et al.	528	75	
	AC	4,806,220	2/89	Finley	204	192.27	
	AD	4,807,419	2/89	Hodek et al.	52	788	
	AE	4,807,439	2/89	Hain et al.	60	602	
	AF	4,808,452	2/89	McShane	428	34	
	AG	4,817,354	4/89	Bayer	52	302	
	AH	4,831,799	5/89	Glover et al.	52	172	
	AI	4,850,175	7/89	Berdan	52	790	
	AJ	4,853,256	8/89	Obringer et al.	427	152	
	AK	4,853,257	8/89	Henery	427	166	

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	AA	4,863,774	9/89	Tucker	428	77	
	AB	4,873,803	10/89	Rundo	52	202	
	AC	4,933,032	6/90	Kunert	52	108	
	AD	4,950,344	8/90	Glover et al.	156	109	
	AE	4,952,430	8/90	Bowser et al.	428	34	
	AF	4,969,250	11/90	Hickman et al.	29	521	
	AG	4,969,346	11/90	Bosl et al.	72	177	
	AG	4,994,309	2/91	Reichert et al.	428	34	
	AH	5,088,258	2/92	Schield et al.	52	398	
	AI	5,156,894	10/92	Hood et al.	428	34	
	AJ	5,177,916	1/93	Misera et al.	52	172	
	AK	5,246,331	9/93	Hallahan et al.	414	676	

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	AL							
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	AB	5,290,611	3/94	Taylor	428	34	
	AC	5,302,425	4/94	Taylor	428	34	
	AD	5,377,473	1/95	Narayan et al.	52	790	
	AE	5,531,047	7/96	Leopold et al.	52	172	
	AF	5,546,708	8/96	Efstratis et al.	52	36.2	
	AG	5,632,122	5/97	Spinks	52	172	
	AH	5,655,282	8/97	Hodek et al.	29	469.5	
	AI	5,683,764	11/97	Alts	428	34	
	AJ	5,813,191	9/98	Gallagher	52	786.13	
	AK	5,873,203	2/99	Thiel	52	172	

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	AA	6,029,885	2/00	Mueller	229	125.19	
	AB	6,223,414B1	5/01	Hodek et al.	29	527.1	
	AC	6,266,940	7/01	Reichert	52	786.13	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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